# EXHIBIT 1

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Page 1
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               UNITED STATES DISTRICT COURT
             IN AND FOR THE DISTRICT OF WYOMING
 2
   STEPHANIE WADSWORTH,
    individually and as
   Parent and Legal
                                   CASE NO.
    Guardian of W.W., K.W.,
                                    2:23-cv-00118-NDF
                                )
   G.W., and L.W., minor
    children, and MATTHEW
   WADSWORTH,
 6
         Plaintiffs,
 8
   v.
   WALMART, INC. and JETSON
    ELECTRIC BIKES, LLC,
10
         Defendants.
11
12
13
                     ORAL DEPOSITION OF
14
                 DEREK A. KING, M.S., P.E.
15
                  MONDAY, AUGUST 19, 2024
16
17
18
19
20
21
22 REPORTED BY:
23 DEBRA A. DIBBLE, FAPR, RDR, CRR, CRC, Notary Public
24 California CSR 14345
25 JOB NO. 44990
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1	Page 16 Another was I believe it was it was
	in a dry cleaner. We actually didn't get very far
3	in that investigation, so
4	Q. So for the other fire claims in which you
5	have been the identified expert, or the primary
6	engineer from BEAR, we have two refrigerator cases,
7	one battery or marine battery case, and then a
8	case at a dry cleaner facility?
9	A. Yes. There was another one. It was an
10	appliance appliance and wiring at a house.
11	Q. What type of appliance?
12	A. That wasn't we that wasn't clear.
13	We didn't get very far in that investigation.
14	Q. Fair to state that you have never been
15	the primary expert or an identified expert by a
16	party that is claiming that there was a lithium-ion
17	battery failure that caused a fire?
18	A. Correct.
19	Q. We'll mark your CV as 70.
20	(King Deposition Exhibit 70 marked.)
21	BY MR. LAFLAMME:
22	Q. There you go, Mr. King.
23	Mr. King, I've handed you what's been
24	marked as Exhibit 70, which is a copy of the CV that
	was produced in this case. And it looks like you

		Page 20
1	job durin	g was it your last year of school?
2	Α.	Yeah.
3	Q.	And then once you graduated from
4	UC Berkel	ey, that's when you went to work for BEAR?
5	Α.	Yes.
6	Q.	Was that job at BEAR, was did you have
7	any jobs	in between BEAR and the time you graduated
8	UC Berkel	ey?
9	Α.	No.
10	Q.	So it sounds like, for all intents and
11	purposes,	for your professional career, it has
12	always be	en at BEAR?
13	Α.	Yes.
14	Q.	Have you ever or strike that.
15		You haven't ever worked for a company
16	that design	gns or manufactures lithium-ion battery
17	products,	correct?
18	Α.	Correct.
19	Q.	And you have never personally designed or
20	manufactu	red a lithium-ion battery product, correct?
21	Α.	Correct.
22	Q.	And you have never been involved in the
23	design or	manufacture of a lithium-ion battery pack,
24	correct?	
25	Α.	Correct.

Page 21
1 Q. Are you a member of any professional
2 organizations?
3 A. No.
4 Q. And I know you on your CV you have the
5 PE designation. When did you get that?
6 A. I believe that was in I think that was
7 in the fall of 2023.
8 Q. So approximately a year ago is when you
9 got your PE designation?
10 A. Yeah.
11 Q. And where are you licensed as a PE?
12 A. California.
13 Q. Any other states?
14 A. No.
15 Q. And I take it you have never been on a
16 any of the UL technical committees?
17 A. Correct.
18 Q. You haven't been on any of the NFPA
19 technical committees?
20 A. Correct.
Q. No ANSI technical committees?
22 A. Correct.
Q. And really, no technical committees of
24 any standard-issuing organization, correct?
25 A. Correct.

1		Α.	Yes.	Page 27
2			And was that the was that the only	
	7		-	
			you played with respect to that other	
4	hover	board	l case with Rong?	
5		Α.	Yes.	
6		Q.	And I assume you weren't named as an	
7	exper	t in	that case, correct?	
8		A.	Correct.	
9		Q.	Do you know if any of your opinions have	ve
10	ever	been	limited or stricken in any manner by a	
11	judge	53		
12		Α.	There I believe so. I'm not aware	of
13	the d	detail	.S.	
14		Q.	Okay. Do you know the name of the case	9
15	or ca	ases i	n which that occurred?	
16		Α.	Possibly Ibarra, I-B-A-R-R-A.	
17		Q.	And what happened with that case?	
18		Α.	I don't really know the details.	
19		Q.	Was that Jason Ibarra versus Future	
20	Motic	n cas	e?	
21		Α.	Yes.	
22		Q.	Okay. And that was the a case out	of
23	the S	Southe	ern District of Florida?	
24		Α.	That sounds correct.	
25		Q.	And as far as what the decision was in	

1	Page 31 A. No.
2	Q. And you are relying on Mr. Schulz in this
	case for his origin opinion as to where the fire may
	have started, correct?
5	A. Schulz, or any other any other
	investigators. I don't recall the different
7	investigators and roles specifically.
8	Q. Needless to say, you do not have any
9	opinions in this case as to the origin of the fire,
10	correct?
11	A. Right.
12	Q. And you do not intend to testify at trial
13	as to any issues related to the origin of the fire,
14	true?
15	A. Correct.
16	MR. AYALA: Just object to the form
17	of that question.
18	BY MR. LAFLAMME:
19	Q. You did not do an origin investigation,
20	correct?
21	A. Correct.
22	Q. You were not at any of the site
23	inspections, correct?
24	A. Correct.
25	Q. Do you know what NFPA code applies to

1	origin i	investigations?	Page 32
2	Α.	No.	
3	Q.	And just to clear up any objections, y	<i>y</i> ou
4	are not	offering an origin opinion in this case a	at
5	all, con	rrect?	
6	Α.	Correct.	
7		(King Deposition Exhibit 71 marked	i.)
8	BY MR. I	LAFLAMME:	
9	Q.	Sir, I'm going to show you what's beer	l
10	marked a	as Exhibit 71.	
11		And could you describe what 71 is?	
12	Α.	71 is a document summary.	
13	Q.	And what does that mean? This was one	e of
14	the docu	uments within your expert files.	
15	A.	This is a I'll call it a high-level	L
16	summary	of what the documents contain, what	
17	informat	tion is in the documents that we were	
18	provided	d at the time.	
19	Q.	So what is the date that this summary	is
20	put toge	ether?	
21	Α.	I don't know the date that this was	
22	started	or the last time I edited this.	
23	Q.	Is this something that you start when	you
24	receive	an assignment?	
25	Α.	It would be when we received materials	3,

Page 33
1 so there's probably a date for when we received
2 started receiving documents.
3 Q. And does this document summary, does this
4 cover all of the documents that you have received in
5 this case?
6 A. This summary does not have any
7 information on depositions.
8 Q. Okay. What depositions have you reviewed
9 in this case?
10 A. There were there was a I believe a
11 Walmart representative. I believe there was a
12 Jetson representative. And I briefly reviewed the
13 Sheaman deposition.
I have just received some depositions of
15 the family, but I haven't had the really had a
16 chance to review those.
Q. Okay. When did you obtain the Sheaman
18 dep transcript?
19 A. I believe that was Friday.
20 Q. So after you issued your report?
21 A. Yes.
22 Q. Have you reviewed the whole Sheaman dep
23 transcript?
24 A. I would say no.
25 Q. It was a pretty lengthy one.

Page 34  1 A. It was.  2 Q. All right. So you looked at part of it  3 over this weekend?  4 A. Skimmed it, yeah.  5 Q. How much of it did you read?  6 A. Not much.  7 Q. And then did you say the Wadsworth family  8 or the Wadsworth father?  9 A. Family.  10 Q. So Mr. and Mrs., and the four children?  11 A. Yes, I believe that's what's in there.  12 Q. Did you receive that on Friday as well?  13 A. Yes.  14 Q. And it sounds like you have not reviewed  15 those dep transcripts yet?  16 A. No.  17 Q. Any other dep transcripts that you have  18 received in this case?  19 A. No.  20 Q. Did you review the Walmart and Jetson  21 corporate rep depositions?  22 A. Yes.  23 Q. When you do that, do you take notes on  24 the transcript?  25 A. Yes.	
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24 the transcript?	22 A. Yes.
	Q. When you do that, do you take notes on
25 A. Yes.	24 the transcript?
	25 A. Yes.

Page 49
1 Q. You have not reviewed any of the body
2 camera footage from this case, have you?
3 A. I have not.
4 Q. Did you even know there was body camera
5 footage from immediate immediately after the
6 accident?
7 MR. AYALA: Form.
8 A. I don't know. I didn't recall, unless it
9 was maybe it was mentioned in the sheriff report,
10 but
11 BY MR. LAFLAMME:
12 Q. Regardless, you haven't reviewed any of
13 the body camera footage from the responding police
14 officers that responded the morning of the fire,
15 correct?
16 A. Correct.
17 Q. And you're not aware of any statements
18 that would have been made on that body camera
19 footage by any of the Wadsworth children, correct?
20 A. Correct.
21 Q. And you're not aware of any of the
22 statements that would have been made on that body
23 camera footage from Mr. Ryan Pasborg, correct?
24 A. Correct.
25 Q. Do you know who Ryan Pasborg is?

1	Α.	Page 50 I think he was the first one on scene, if
2	I remember	correctly.
3	Q.	He was the good samaritan that assisted
4	in getting	the Wadsworth family out of the house.
5		You're not aware of any statements he
6	would have	said on that body camera footage about
7	where he fi	irst saw fire, correct?
8	Α.	Correct.
9	Q.	Do you know what UL codes are applicable
10	to the desi	ign and manufacture of this hoverboard?
11	Α.	I believe there's the UL I want to say
12	2722, if I	remember the number correctly.
13	Q.	You were close. It's UL 2272.
14	Α.	2272. Okay.
15	Q.	Any other UL codes that you are aware of
16	that would	apply to the design or manufacture of
17	this hover	poard?
18	Α.	I know there's another one that deals
19	with lithi	um-ion batteries. I don't recall the
20	number off	nand.
21	Q.	Okay.
22	Α.	Yeah.
23	Q.	Do you know what the so you don't know
24	what the U	L code is that applies to the specific
25	lithium-ion	n battery cells, correct?

1	A. Correct. Not offhand.	age 51
2	Q. And in this case, it's your opinion that	
3	two of the two of the ten battery cells that were	е
4	in this battery pack experienced an internal short	
5	circuit with thermal runaway. Correct?	
6	A. Yes.	
7	Q. And you've identified those in your	
8	report as cells 4 and 10?	
9	A. Yes.	
10	Q. So you believe that it is a an issue	
11	with the lithium-ion battery cells, for cell 4 and	
12	10, that caused this fire? At least that's your	
13	opinion in this case, correct?	
14	A. Yes.	
15	Q. But you don't know what UL code applies	
16	to these specific lithium-ion battery cells?	
17	A. I don't recall the number.	
18	Q. Do you know if the lithium-ion battery	
19	cells in this hoverboard were UL listed?	
20	A. I did not check that, so I don't know.	
21	(King Deposition Exhibit 72 marked.)	
	BY MR. LAFLAMME:	
23	Q. We'll mark as Exhibit 72, this is a copy	
	of a PowerPoint presentation that you went	
25	through or at least put together, correct?	

1	here it	Page 65 shows the battery cell from an exemplar
2	Plasma	unit, correct?
3	Α.	Yes.
4	Q.	And how is it that you obtained the
5	exempla	r Plasma unit?
6	Α.	I purchased.
7	Q.	From where?
8	А.	eBay.
9	Q.	When did you purchase the exemplar
10	Plasma?	
11	Α.	Should be a few months ago. I don't
12	remembe	r exactly.
13	Q.	Had you purchased the exemplar Plasma
14	before	the lab inspection that we were at at your
15	place i	n February?
16	Α.	No.
17	Q.	Did you do anything to determine who the
18	manufac	turer was of the battery cell for the Plasma
19	unit?	
20	Α.	No. My understanding is JDDL is the name
21	of a ma	nufacturer, but beyond that
22	Q.	Do you know which manufacturer name that
23	is?	
24	Α.	No.
25	Q.	Have you seen any of the document

1	production	Page 66 ons that Jetson has made in this case?
2	Α.	I don't believe so.
3	Q.	You haven't seen any of the UL test
4	reports (	or certification records in this case?
5	Α.	I have not.
6	Q.	We'll mark this as 74.
7		(King Deposition Exhibit 74 marked.)
8	BY MR. LA	AFLAMME:
9	Q.	Handing you what's been marked as
10	Exhibit	74, which is a Bates document that starts
11	with JETS	SON 311.
12		Do you see that in the lower right-hand
13	corner?	
14	Α.	Yes.
15	Q.	And you have not seen this before,
16	correct?	
17	Α.	Correct.
18	Q.	If you go to the second page of this
19	document	, there's a description of this battery.
20	And you	can see the model number is INR, all
21	capitaliz	zed, 18650P.
22		Do you see that?
23	Α.	Yes.
24	Q.	And that's the same model number on this
25	battery o	cell, correct?

Page 68 1 Exhibit 74, you agree with me that this is a UL
2 certification report for this model battery cell?
3 A. Yes.
4 Q. So with respect to the battery cell that
5 was utilized in the Plasma model hoverboards, you
6 agree that they were UL-certified battery cells,
7 correct?
8 MR. AYALA: Form.
9 A. It certainly appears they were, based on
10 this report.
11 BY MR. LAFLAMME:
12 Q. Did you ever ask to see Jetson's document
13 production in this case?
14 A. I don't recall if I did or didn't.
15 Normally I would, yeah.
16 Q. The UL test records and certifications is
17 something that would directly relate to your
18 analysis in this case, correct?
19 A. Somewhat. They could help if we wanted
20 to dig into why these specific cells might have an
21 internal short.
22 Q. Do you have an understanding as to what
23 testing was required of these cells in order to
24 obtain the UL certification?
25 A. Not in not really, as I sit here.

		Page 69
1		Do you know if a short-circuit test was
2	done as pa	rt of the UL certification and test
3	process?	
4	Α.	I believe so, yes.
5	Q.	And now in looking at this document, you
6	are aware	that UL 2580 is the standard that applies
7	to battery	cells, lithium-ion battery cells,
8	correct?	
9	Α.	Yes.
10	Q.	You did not know that prior to looking at
11	this docum	ent, correct?
12	Α.	I did not recall the document number, the
13	UL number.	
14	Q.	Did you consult with UL 2580 at all in
15		sis in this case?
16		No.
17	Q.	And you don't reference UL 2580 at all in
		t, correct?
19	-	Correct.
20		Are you aware of a recall that Jetson had
		rent hoverboard model?
22	Α.	Yes.
23	Q.	What is your awareness of that?
24	Α.	I believe it was the Rogue model, model
25	name. I -	- if I recall correctly, it was related to

1	Α.		Page 75
2	Q.		
	correct?	The negacive blue does not have a cap,	
4		Correct.	
5		And then you have: Internal materials	
	_	ejected, meaning they would have left the	ne
7	cell itsel	f, correct?	
8	Α.	Yes.	
9	Q.	And they would have left the cell through	gh
10	the end ca	p?	
11	A.	Yes. Or along with the end cap.	
12	Q.	And then you have that that is consister	nt
13	with an in	ternal short, correct?	
14	A.	Yes.	
15	Q.	And when you say internal short, you mea	an
16	a short ci	rcuit?	
17	Α.	Yes.	
18	Q.	And in order to get a short circuit, you	u
19	have to ha	ve does that require communication wit	th
20	the positi	ve and negative side, meaning the anode	
21	and cathod	e?	
22	Α.	Yes. Yep.	
23	Q.	And then, so it's your opinion that	
24	cells 4 an	d 10, they both had an internal short	
25	circuit, c	orrect?	

1	BY MR. LAF		Page 87
2		And with respect to Exhibit 76, that	
	~	now really any damage to this tab, correct	<u>:</u> ?
4		MR. AYALA: Form.	
5	Α.		
	deformatio		
7	acroniacro	(King Deposition Exhibit 77 marked.)	
	BY MR. LAF		
9			
	Q.	, ,	
		n in a cross section of cell 4, here we	
		the tab intact, correct?	
12	Α.	Yes.	
13	Q.	And there's no melting on this tab?	
14	Α.	Not that's apparent.	
15	Q.	And there was no melting on the tab in	
16	Exhibit 76	either, correct?	
17	A.	That's correct.	
18	Q.	And as with cell 10 in Exhibit 76, you	
19	would expe	ect to see some damage or melting to this	
20	tab had th	ere been an internal short circuit,	
21	correct?		
22	Α.	Possibly.	
23		MR. AYALA: Form.	
24	BY MR. LAF	LAMME:	
25	Q.	And in order to get an internal short	

Page 88  1 circuit, we talked about how the anode and cathode
2 need to communicate, correct?
3 A. Yes.
4 Q. And the in between the anode and
5 cathode within an 18650 cell is a separator,
6 correct?
7 A. Yes.
8 Q. And what is the separator made out of?
9 A. It's typically a polymer, a porous
10 polymer.
11 Q. So in order for the short circuit to
12 occur in cells 4 and 10, you need to have a failure
13 of the separator, correct?
14 A. Yes.
15 Q. If the separator doesn't fail, then there
16 is no way for a short circuit to occur, correct?
17 A. That's right.
18 Q. And the separator is it's independent
19 to each cell, correct?
20 A. Each cell has its own separator.
21 Q. Right. So I guess what I'm getting at
22 is, so each of the ten cells has its own separator
23 between the anode and cathode, correct?
24 A. Yes.
25 Q. So in order to get a short at cells 4 and

1 10, both of those separators, so the separator in  2 cell 4 and the separator in cell 10 would need to  3 fail in order to get the communication from the  4 anode and cathode.  5 A. Yes.  6 Q. And both of those separators would have  7 to fail at the same time in order to get a short in  8 cells 4 and 10, correct?  9 A. I don't see a timing requirement for  10 those to be synchronized.  11 Q. Well, in order to get because we just  12 talked about how you have cells 4 and 10, those are  13 the two cells that had a short circuit, correct?  14 A. Yes.  15 Q. And both of those cells, when they had  16 their short circuit, you talked about how your  17 the progression of the failure was that the end caps  18 would have come off on cells 4 and 10, then you'd  19 get the internal contents and some flame on the  20 internal portions of the hoverboard, which would  21 then ignite combustibles by cells 4 and 10, correct?  22 A. Yes.  23 Q. And cells 4 and 10 would have failed at  24 the same time, correct?  25 MR. AYALA: Form.	Page 89
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24 the same time, correct?	22 A. Yes.
	Q. And cells 4 and 10 would have failed at
MR. AYALA: Form.	24 the same time, correct?
	MR. AYALA: Form.

Page 90  1 A. Approximately, yeah.
2 BY MR. LAFLAMME:
3 Q. So in order to get the cells 4 and 10 to
4 short circuit, both of their separators would have
5 had to fail at approximately the same time, correct?
6 A. Yes.
7 Q. Have you ever had any other hoverboard
8 cases where you believe there was a short circuit in
9 two different cells at approximately the same time?
10 A. I have not personally had any other
11 hoverboard cases.
12 Q. Okay. How about any other lithium-ion
13 battery cases, any others that you can identify
14 where you believe the two of at least two of
15 the battery cells within the battery pack failed at
16 approximately the same time due to a short circuit?
17 A. Not nothing comes to mind.
18 Q. Okay. If you could pull out your
19 PowerPoint again, and go to the page of the CT scan.
20 Were you able to was there any arcing
21 that was found on any wires within the hoverboard?
22 A. Not that I observed.
Q. Was there any arcing or are you aware
24 of any arcing that was found on any wires related to
25 the Wadsworth house at the site?

Page 91  1 A. I thought someone mentioned a possible
2 arc outside. I'm not certain that
3 Q. So you are aware that there has at least
4 been some discussions about some arcing that may
5 have been found on some wires outside of the
6 residence?
7 A. Yes, at least some discussion of that
8 possibility.
9 Q. Do you know where that arcing was
10 located?
11 A. Somewhere related to the shed, the
12 smoking shed.
13 Q. So you are aware at least of at least
14 some discussion about some arcing that was
15 identified at the smoking shed outside of the
16 residence, correct?
17 A. Yes.
18 Q. Are you aware of any arcing that was
19 identified inside the residence, the internal house
20 wiring?
21 A. No, I'm not.
22 Q. And this hoverboard was located just in
23 front of an electrical outlet, correct?
24 A. I believe so, yes.
25 Q. And you're not aware of any arcing that

1	was located on that electrical outlet or the
2	associated wires, correct?
3	A. I'm not aware of any.
4	Q. And arcing within a fire occurs when an
5	electrical line is hit by flames or high heat and it
6	is energized, correct?
7	A. Yeah. If the insulation between the
8	electrified lines goes away and they contact each
9	other, then you can get an arc.
10	Q. And one of the tenets or one of the
11	necessities in order to have an arc to occur on an
12	electrical wire is that it needs to be energized,
13	correct?
14	A. Yes.
15	Q. Do you know where the electrical service
16	came into the house at the Wadsworth residence?
17	A. No.
18	Q. And do you know where the electrical
19	service came into the house in relation to where the
20	smoking shed was located?
21	A. No.
22	Q. Have you seen any photographs of the
23	arcing that was identified at the smoking shed?
24	A. No.
25	Q. Looking at the CT scan that you have in

		Page 106
1	worked on,	did you ever see the board that was being
2	investigate	ed to determine if it had failed?
3		Or did you just see the exemplar?
4	Α.	I just saw the exemplar, to my memory.
5	Q.	And your involvement with that exemplar
6	was coming	up with a process to extract data from
7	it, correct	<b>:</b> ?
8	Α.	Yes.
9		MR. LAFLAMME: I'm just going to save
10	this	now, before I forget.
11	BY MR. LAFI	LAMME:
12	Q.	Did you do any testing in this case
13	relative to	the hoverboard?
14	Α.	No.
15		(King Deposition Exhibit 80 marked.)
16	BY MR. LAFI	LAMME:
17	Q.	I'll hand you what's been marked as
18	Exhibit 80	
19		And in Exhibit 80, this is from the CT
20	scan. Can	you see the plug receptacle?
21	Α.	Yes.
22	Q.	And that's the barrel with three pins in
23	it?	
24	Α.	Yes.
25	Q.	And looking at the plug receptacle, there

1	these	Page 120
2	Α.	These are part of the materials provided
3	to me.	
4	Q.	So it looks like there is a Salesforce
5	record in	your file that contains this information,
6	and then	t says that it was created by Angela
7	Kelsey-Flo	owers on December 20th, 2022.
8		I think that's probably what you're
9	referring	to.
10	Α.	Yes.
11	Q.	Did you ever speak with Angela
12	Kelsey-Flo	owers about this note?
13	Α.	No.
14	Q.	So as far as you are aware, at this point
15	it was jus	st a note that you had in your file about
16	Ms. VanDor	ngen's conclusion about not being able to
17	rule out a	an outside fire?
18	Α.	Yes.
19	Q.	Have you reviewed the Matterport scan in
20	this case?	
21	Α.	No.
22	Q.	Have you done anything to assess the
23	potential	of alternative causes of this fire outside
24	of the hor	verboard?
25	Α.	No, I have not.

Page 140 1 you know, consumer complaints, incidents, anything
2 that could drive a re-evaluation of what's already
3 been laid out.
4 Q. Well, in your report here at page 13, you
5 reference FMEA or other risk assessment to eliminate
6 unnecessary risks as part of their design process.
7 Do you see that?
8 A. Yes. Mm-hmm, I do.
9 Q. When you say "their" design process,
10 whose design are you talking about?
11 A. Well, when I wrote this, I mean, the
12 only the only name I was really familiar with was
13 Jetson, so, you know, at the time in my mind, it
14 would it was Jetson who would do it.
15 Q. Do you have any information as to what
16 FMEA or other risk assessment process may have been
17 adopted by the manufacturer for this hoverboard?
18 A. I don't have that information.
19 Q. But you are aware that the battery cells
20 that were utilized in this hoverboard were UL
21 certified, correct?
22 A. Yes.
23 Q. And would have gone through the UL test
24 process to get that UL 2580 certification.
25 A. Yes.

1 fire analysis in that regard?	Page 145
2 A. Correct.	
3 Q. And with respect to your work in this	
4 case, you were really just focused on the hoverbo	ard
5 and that's it, correct?	
6 A. Yes.	
7 Q. Have you ever spoken with anyone from	the
8 Wadsworth family?	
9 A. No.	
10 Q. Have you ever spoken with any witnesse	S
11 in this case?	
12 A. No.	
13 Q. Has your only contact in this case bee	n
14 with individuals with Morgan & Morgan?	
15 A. Yes. And, of course, at the inspectio	n.
16 Q. Sure. When we were there at the joint	
17 inspection?	
18 A. Yes.	
19 Q. Do you know what temperature carpeting	
20 starts to melt at?	
21 A. No.	
22 Q. Is there any additional work that you	
23 plan to do in this case?	
24 A. Not not that I plan at this time.	Not
25 unless I'm asked to.	

Page 183 1 in this case.
2 You didn't review any of that, right?
3 A. Correct.
4 Q. Did you as far as your involvement and
5 the scope of your involvement goes, is that a piece
6 of evidence that you feel you need to review for any
7 reason?
8 MR. LAFLAMME: Object to form.
9 A. Well, my understanding of my scope was
10 looking at the hoverboard evidence, you know,
11 personally, directly, to determine if if it was
12 consistent with a being an origin of fire.
13 BY MR. AYALA:
14 Q. And based upon your understanding of your
15 scope, do you believe that it it is all the
16 evidence you reviewed is consistent with the battery
17 cells of this hoverboard being, at the very least,
18 the cause of this fire?
19 MR. LAFLAMME: Object to form.
20 A. More likely.
21 BY MR. AYALA:
22 Q. More likely than not?
23 A. Than not, yes.
24 Q. Okay. As far as the questions asked of
25 you regarding V patterns and inverted cone patterns

Page 189 1 lithium-ion battery case is this one? Α. Yes. And the only one in which you've ever sat Q. 4 for a deposition related to a lithium-ion -- an 5 alleged lithium-ion battery fire is this case, 6 correct? Α. Yes. And the only case in which you've been 9 named as an expert, disclosed as an expert for a 10 lithium-ion battery case, involving an alleged fire 11 is this one? 12 Α. Yes. You indicated that you considered the 13 Q. 14 possibility of the fire not starting at the 15 hoverboard as part of your investigation in this to 16 Attorney Ayala. 17 Do you recall that? 18 Α. Yes. But then later, you said the scope of 19 20 your work was to only look at the hoverboard 21 evidence, correct? Was to look at the hoverboard evidence to 22 Α. 23 see if it is consistent or not with internal -- with 24 being a fire origin.

25 Q. You have not done anything to assess

Page 190 1 whether the fire could have started at the smoking
2 shed, correct?
3 A. Correct.
4 Q. And the only physical evidence that you
5 have looked at is the hoverboard, correct?
6 A. Yes.
7 Q. And you'll agree that lithium-ion battery
8 cells can fail when they are subject to an external
9 fire attack?
10 A. Yes.
11 Q. And you don't you haven't done any
12 assessment to determine how this fire may have moved
13 through the Wadsworth structure, correct?
14 A. Correct.
One of the things that you said is that
16 an internal short within a lithium-ion battery
17 should only affect that singular cell.
Do you recall that?
19 A. Yes.
Q. And in this case, you're saying that two
21 singular cells had a short circuit, correct?
22 A. Yes.
Q. So at substantially the same time, two
24 different cells in two different parts of this
25 battery pack had a failure of the separators within

Page 191 1 those individual cells, correct?
2 A. Yes.
3 Q. And they had a failure of the separator
4 at substantially the same time to the extent that
5 they both short-circuited at substantially the same
6 time.
7 That's your theory, correct?
8 A. That's what it that's what it appears
9 to be.
10 Q. Have you ever had another case where two
11 individual cells short-circuited at the same time?
12 A. No.
13 Q. That would be pretty unusual, wouldn't
14 it?
MR. AYALA: Form.
16 A. It's unusual, so far.
17 BY MR. LAFLAMME:
18 Q. Meaning you have to have an individual
19 failure within cell 4, at substantially the same
20 time as you have an individual but completely
21 separate failure at cell 10, correct?
22 A. Yes.
Q. That's what you're saying in this case.
MR. AYALA: Form.
He's said what he's saying.

Page 192  1 A. Yes. Yes. I believe it's a coincidence,
2 but that's what appears to have occurred.
3 BY MR. LAFLAMME:
4 Q. Have you done any research to determine
5 the percentage chance of that coincidence?
6 A. No.
7 MR. AYALA: Form.
8 BY MR. LAFLAMME:
9 Q. The individual cell itself, the
10 conditions that we see cells 4 and 10 in after the
11 fire, those conditions would have the same
12 appearance if it was an external fire attack as
13 well, correct?
14 A. Yes. For those individual cells, yes.
15 Q. Meaning when lithium-ion battery cells
16 fail in a fire due to a fire attack, the appearance
17 is similar to what we see the two cells that have
18 failed in this case.
19 A. Yes.
20 Q. You were asked if it's possible to have a
21 short an internal short with the cell or,
22 sorry, with the hoverboard not plugged in.
Do you recall that?
24 A. Yes.
25 Q. You'd agree with me that it's very

1	Page 195 MR. AYALA: Form.
2	A. Yes, I believe there would be.
3	BY MR. LAFLAMME:
4	Q. Meaning if the hoverboard is plugged in,
5	while some of the wires may not be energized, there
6	would certainly be some internal wires that are
7	energized when it's plugged in?
8	A. Yes, the let's see. There would be,
9	at least from the charger port into probably the
10	DMS. And that's probably at a fairly low
11	energization, if the battery if it's fully
12	charged.
13	Q. That section of wiring, though, would
14	have power to it, correct, meaning it would be
15	energized?
16	A. Yes.
17	Q. And it would be energized to the extent
18	that had it been attacked by fire while plugged in,
19	you could see an arc in that area?
20	MR. AYALA: Form.
21	A. That that, I don't I don't know if
22	that's true offhand.
23	BY MR. LAFLAMME:
24	Q. Okay. Regardless, I think we agree,
25	there wasn't any arcing that was found on any of the

( 1 j	internal w	Page 196 iring in the hoverboard, correct?
2	Α.	That's true.
3	Q.	And there wasn't any arcing found on the
4 ł	nouse wirin	ng immediately adjacent to where the
5 h	noverboard	was located, correct?
6	Α.	Not that I read about.
7	Q.	As an expert doing an investigation, you
8 8	agree that	it's important to have as much
9 3	information	n as you can about the fire loss, correct?
10	Α.	Yes.
11		MR. AYALA: Form.
12	Α.	In general, yes.
13 E	BY MR. LAFI	LAMME:
14	Q.	I mean, as an engineer, you want all the
15 i	information	n that's available, right?
16	Α.	Yes.
17	Q.	And you want to have the opportunity to
18 ı	review all	the information that's available during
19 5	your invest	tigation.
20	Α.	Yes.
21	Q.	You don't want parts of the
22 i	investigat	ion or parts of whatever information is
23 a	available t	to be hidden from you, correct?
24		MR. AYALA: Form.
25	Α.	True.

Page 197 1 BY MR. LAFLAMME:
2 Q. And you agree with me that there were a
3 number of documents that you've seen here today that
4 you had not seen prior to today, correct?
5 A. True. Yes.
6 Q. And you indicated that you have not seen
7 any photographs from the lab inspection at Palmer's
8 lab, correct?
9 A. Correct.
10 Q. Are you aware at all of what
11 Mrs. Wadsworth's activities were the evening before
12 and in the early morning hours before the fire?
13 A. No.
14 Q. Do you know that she had smoked in that
15 smoking shed a couple of hours before this fire was
16 reported?
17 A. No.
18 MR. AYALA: Form.
19 BY MR. LAFLAMME:
20 Q. Are you first learning that right now?
21 A. Yes.
22 Q. Did you know that she had upwards of ten
23 alcoholic drinks that evening?
MR. AYALA: Form.
25 A. No.

Page 198 1 BY MR. LAFLAMME:
2 Q. You are first learning about that now?
3 A. Yes.
4 Q. Were there any outside studies or
5 standards that you relied on that were not
6 referenced in your report?
7 A. I mean, there's literature that I have
8 read that's part of my general kind of background
9 knowledge at this point, but
10 Q. So what is that
11 A the
12 Q. Sorry. Go ahead.
13 A. Just that wasn't specific to this case.
14 Q. Okay.
15 A. Yeah.
16 Q. As far as the literature that you have
17 read over your career as general background
18 knowledge, any of it that you would reference or
19 cite as specific to this case?
20 A. Not I think it's applicable. It's
21 applicable information, but I'm not really more
22 specific than that.
Q. Applicable in what way?
24 A. Well, there are some 20 I want to say
25 around 20 I want to say 2015 articles on thermal

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1 runaway within battery packs. So those were, you
2 know, it was done in the lab, and people wrote
3 papers about it.
4 Q. When you say 2015, you're talking about
5 the year?
6 A. Yes. Yeah.
7 Q. And that's kind of when lithium-ion
8 battery products were being introduced to the
9 market, correct?
10 A. Yes.
11 Q. So back in 2015 when a lot of these
12 products were first being introduced to the market,
13 there were some articles about how there were some
14 issues with the products from a potential fire
15 perspective?
16 A. Yes.
17 Q. Okay. Are those the articles that you're
18 talking about?
19 A. Yes.
20 Q. And as a result of those issues back in
21 2014-15 and those articles, you understand that UL
22 then got involved and created some standards for
23 products that utilize lithium-ion batteries,
24 correct?
25 A. That sounds reasonable. I'm not really